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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/827,494	04/19/2004	Ken Xiao Kang Zhang	S63.2-11346-US01	3474
	7590 11/28/2007	EXAMINER		
VIDAS, ARRETT & STEINKRAUS, P.A. SUITE 400, 6640 SHADY OAK ROAD			HUSON, MONICA ANNE	
EDEN PRAIRIE, MN 55344			ART UNIT	PAPER NUMBER
		1791		
			MAIL DATE	DELIVERY MODE
			11/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.		Applicant(s)	
10/827,494		ZHANG ET AL.	
Examiner		Art Unit	
Monica A. Huson		1732	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --THE REPLY FILED 12 November 2007 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. 1. The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods: The period for reply expires ___ months from the mailing date of the final rejection. a) b) The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL 2. The Notice of Appeal was filed on _____. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). **AMENDMENTS** 3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because (a) They raise new issues that would require further consideration and/or search (see NOTE below): (b) They raise the issue of new matter (see NOTE below); (c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or (d) They present additional claims without canceling a corresponding number of finally rejected claims. NOTE: _____. (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324). 5. Applicant's reply has overcome the following rejection(s): 6. Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s). 7. 🛛 For purposes of appeal, the proposed amendment(s): a) 🖾 will not be entered, or b) 🗌 will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 2-22. Claim(s) withdrawn from consideration: _____. AFFIDAVIT OR OTHER EVIDENCE 8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e). 9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1). 10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached. REQUEST FOR RECONSIDERATION/OTHER 11.

The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 12.
Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). 13. Other: ____.

Continuation of 11. does NOT place the application in condition for allowance because: Applicant contends that written description support was provided regarding the last amendment. This is not persuasive because the Examiner maintains that the original specification does not contain support for a LIQUID. Although the original specification discusses preferred embodiments of the heating fluid as having particular viscosities and lists several liquids as examples, it is not believed that this preferred embodiment renders the application exclusive to liquids. For example, although viscosity is a property of liquid, it is also a property of gas.

Applicant contends that claims 2-16 are not indefinite because there is no basis to assert that dependent method claims must further define the methodical stepwise invention of the independent claim from which they depend. The test for a proper dependent claim under the fourth paragraph of 35 U.S.C. 112 is whether the dependent claim includes every limitation of the claim from which it depends. Although the claims 2-16 refer to various physical elements mentioned in independent claim 17, it is not seen how they include every limitation of the method of claim 17; their construction does not even refer to any method steps of claim 17. Therefore, it is unclear how they further limit the method of claim 17.

With respect to the Prior Art rejections, applicant maintains that Leonhardt's holes would only provide for the passage of air, not water. This is not persuasive because it is not clear how a hole would be selective between air and water. If an object having even the smallest hole therein is submerged, water will eventually find its way through the hole to the interior of the object. Therefore it is maintained that Leonhardt's holes will allow for passage of water between the bath and the mold.

Regarding Gass-Erb, applicant contends that Gass-Erb is not analogous to the instant invention because his heater is immersed. This is not persuasive because Gass-Erb was only cited to show the concept of agitating a heated fluid while an object is immersed therein. It is maintained that Gass-Erb shows this concept, regardless of what kind of object is immersed in the heated fluid.

Monica A Huson November 26, 2007

	Application No.	Applicant(s)				
Notice of Non-Compliant	10/827,494	ZHANG ET AL.				
Amendment (37 CFR 1.121)	Examiner	Art Unit				
	Monica A. Huson	1732				
The MAILING DATE of this communication app	<u> </u>	<u> </u>				
The amendment document filed on <u>12 November 2007</u> requirements of 37 CFR 1.121 or 1.4. In order for the an item(s) is required.						
THE FOLLOWING MARKED (X) ITEM(S) CAUSE THE 1. Amendments to the specification: A. Amended paragraph(s) do not include B. New paragraph(s) should not be unde C. Other	markings.	BE NON-COMPLIANT:				
2. Abstract: A. Not presented on a separate sheet. 37 B. Other	7 CFR 1.72.					
 □ 3. Amendments to the drawings: □ A. The drawings are not properly identified in the top margin as "Replacement Sheet," "New Sheet," or "Annotated Sheet" as required by 37 CFR 1.121(d). □ B. The practice of submitting proposed drawing correction has been eliminated. Replacement drawings showing amended figures, without markings, in compliance with 37 CFR 1.84 are required. □ C. Other 						
 ✓ 4. Amendments to the claims: ☐ A. A complete listing of all of the claims is not present. ☐ B. The listing of claims does not include the text of all pending claims (including withdrawn claims) ☐ C. Each claim has not been provided with the proper status identifier, and as such, the individual status of each claim cannot be identified. Note: the status of every claim must be indicated after its claim number by using one of the following status identifiers: (Original), (Currently amended), (Canceled), (Previously presented), (New), (Not entered), (Withdrawn) and (Withdrawn-currently amended). ☐ D. The claims of this amendment paper have not been presented in ascending numerical order. ☐ E. Other: 						
5. Other (e.g., the amendment is unsigned or n						
For further explanation of the amendment format require	•	§ /14.				
TIME PERIODS FOR FILING A REPLY TO THIS NOTICE	CE:					
 Applicant is given no new time period if the non-compliant amendment is an after-final amendment or an amendmen filed after allowance. If applicant wishes to resubmit the non-compliant after-final amendment with corrections, the entire corrected amendment must be resubmitted. 						
2. Applicant is given one month, or thirty (30) days, whichever is longer, from the mail date of this notice to supply the correction, if the non-compliant amendment is one of the following: a preliminary amendment, a non-final amendment (including a submission for a request for continued examination (RCE) under 37 CFR 1.114), a supplemental amendment filed within a suspension period under 37 CFR 1.103(a) or (c), and an amendment filed in response to a Quayle action. If any of above boxes 1. to 4. are checked, the correction required is only the corrected section of the non-compliant amendment in compliance with 37 CFR 1.121.						
Extensions of time are available under 37 CFR 1.136(a) only if the non-compliant amendment is a non-final amendment or an amendment filed in response to a Quayle action.						
Failure to timely respond to this notice will result in: Abandonment of the application if the non-compliant amendment is a non-final amendment or an amendment filed in response to a Quayle action; or Non-entry of the amendment if the non-compliant amendment is a preliminary amendment or supplemental amendment.						
Legal Instruments Examiner (LIE), if applicable	 Telepho	ne No.				
U.S. Patent and Trademark Office	Part	Part of Paper No. 20071120				